REMARKS

In the Claims:

Claims 6, 8-11 and 21-25 remain in this application. Claims 6 and 21 have been amended. These amendments have support in the original claims, specification and/or figures. As such, no new matter has been added.

Claim Objection and 112 Rejection:

Claim 21 was objected to and rejected under 35 U.S.C. 112, second paragraph. In response, Applicant has amended claim 21. Accordingly, Applicant respectfully requests that the objection and 112 rejection of claim 21 be withdrawn.

103(a) Rejection:

Claims 6, 8-11 and 21-25 were rejected under 35 U.S.C. 103(a) as being unpatentable over O'Connor et al. (U.S. 2002/0145194) in view of Rabin et al. (WO 03/046265). In response, Applicant has amended claims 6 and 21.

Claim 6, as amended, includes the element of:

a plurality of nano-wires extending between said first electrode and said second electrode, wherein the plurality of nano-wires comprise a higher density proximate to said area of higher heat dissipation rate, a lower density proximate to an intermediate area between said area of higher heat dissipation rate and said remainder of the microelectronic die, and a further lower density proximate to said remainder of the microelectronic die. (emphasis added)

Applicant notes in the Action (page 5) that Rabin is considered as teaching higher density nano-wires in the area of the porous alumina layer occupied by nano-wires and lower density nano-wires in the area of the porous alumina layer unoccupied by nano-wires. However, there is no teaching or suggestion in Rabin of nano-wires comprising three densities as now claimed in claim 6. Since the O'Connor and Rabin Page 6 of 8

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references fail to teach or suggest a plurality of nano-wires extending between said first electrode and said second electrode, wherein the plurality of nano-wires comprise a higher density proximate to said area of higher heat dissipation rate, a lower density proximate to an intermediate area between said area of higher heat dissipation rate and said remainder of the microelectronic die, and a further lower density proximate to said remainder of the microelectronic die, the combination of references can not render claim

6 obvious. Accordingly, Applicant respectfully requests that the 103(a) rejection of claim

Applicant notes that independent claim 21 shares similar claim features with claim 6 and is likewise patentable over the O'Connor and Rabin combination of references for at least the reasons mentioned above. Accordingly, Applicant respectfully requests that the 103(a) rejection of claim 21 be withdrawn.

6 be withdrawn.

Based at least upon their dependency to claims 6 or 21, Applicant respectfully submits that dependent claims 8-11 and 22-25 are likewise patentable over the O'Connor and Rabin combination of references. Accordingly, Applicant respectfully requests the 103(a) rejection of claims 8-11 and 22-25 be withdrawn.

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CONCLUSION

Applicant respectfully submits that claims 6, 8-11 and 21-25 are in condition for allowance and such action is earnestly requested. The Commissioner is hereby authorized to charge shortages or credit overpayments to Deposit Account No. 500221. The Examiner is invited to call David Guglielmi at (503) 712-1610 if there remains any issue with allowance of this case.

Respectfully submitted,

Shriram Ramanathan et al.

Dated: 11/24/08 /David L. Guglielmi/Reg. No. 55,229

David L. Guglielmi Registration No. 55,229 Attorney for Applicant

Intel Corporation 2111 NE 25th Ave Hillsboro, OR 97124 (503)712-1610